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NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS 3	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS 4	MAR 31	CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS 5	MAR 31	LPCI now available as a replacement to LDPCI
NEWS 6	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 7	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS 8	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 9	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS 10	APR 28	IMSRESEARCH reloaded with enhancements
NEWS 11	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS 12	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS 13	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS 14	JUN 06	KOREAPAT updated with 41,000 documents
NEWS 15	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS 16	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS 17	JUN 25	CA/CAplus and USPAT databases updated with IPC reclassification data
NEWS 18	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS 19	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS 20	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS 21	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS 22	JUL 28	CA/CAplus patent coverage enhanced
NEWS 23	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS 24	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS 25	JUL 28	STN Viewer performance improved
NEWS 26	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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FILE 'HOME' ENTERED AT 12:17:27 ON 07 AUG 2008

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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STRUCTURE FILE UPDATES:    6 AUG 2008  HIGHEST RN 1039104-40-9
DICTIONARY FILE UPDATES:   6 AUG 2008  HIGHEST RN 1039104-40-9

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=>
Uploading C:\Program Files\STNEXP\Queries\10808678F.str
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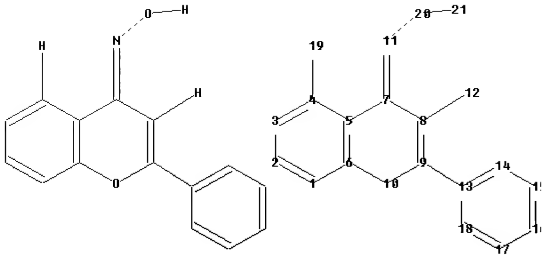
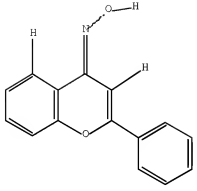


chain nodes :
11 12 19 20 21
ring nodes :
1 2 3 4 5 6 7 8 9 10 13 14 15 16 17 18
chain bonds :
4-19 7-11 8-12 9-13 11-20 20-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 13-14 13-18 14-15 15-16
16-17 17-18
exact/norm bonds :
5-7 6-10 7-8 7-11 8-9 9-10 11-20
exact bonds :
4-19 8-12 9-13 20-21
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:CLASS
20:CLASS 21:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 12:18:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       50 TO ITERATE

100.0% PROCESSED       50 ITERATIONS                                3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE   **COMPLETE**
                        BATCH    **COMPLETE**
PROJECTED ITERATIONS:          576 TO     1424
PROJECTED ANSWERS:               3 TO      163

L2            3 SEA SSS SAM L1

=> d scan

L2   3 ANSWERS   REGISTRY  COPYRIGHT 2008 ACS on STN
IN   4H-1-Benzopyran-4-one, 6-bromo-2-(4-methylphenyl)-, oxime
MF   C16 H12 Br N O2
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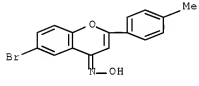

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s sss full l1
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FULL SEARCH INITIATED 12:19:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      965 TO ITERATE

100.0% PROCESSED      965 ITERATIONS                          117 ANSWERS
SEARCH TIME: 00.00.01

L3          117 SEA SSS FUL L1

=> save temp l3 gree10808678/a
ANSWER SET L3 HAS BEEN SAVED AS 'GREE10808678/A'
  75% OF LIMIT FOR SAVED ANSWERS REACHED

=> fil caplu
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                ENTRY    SESSION
FULL ESTIMATED COST                            179.74     179.95

FILE 'CAPLUS' ENTERED AT 12:20:19 ON 07 AUG 2008
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FILE COVERS 1907 - 7 Aug 2008  VOL 149 ISS 6
FILE LAST UPDATED: 6 Aug 2008  (20080806/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the second quarter of 2008.

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=> s l3
L4          22 L3

=> s l4 and (ay<2003 or py<2003 or pry<2003)
       4492663 AY<2003
      22955004 PY<2003
       3960776 PRY<2003
L5          20 L4 AND (AY<2003 OR PY<2003 OR PRY<2003)

=> d ibib abs hitstr l4 1-22

L4   ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2007:1396593  CAPLUS  Full-text
DOCUMENT NUMBER:          148:34035
TITLE:                    Preparation of oximyl macrocyclic hepatitis C serine
                          protease inhibitors
```

INVENTOR(S): Sun, Ying; Niu, Deqiang; Xu, Guoyou; Or, Yat Sun; Wang, Zhe
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 101pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070281884	A1	20071206	US 2006-502740	20060811
WO 2007143694	A2	20071213	WO 2007-US70524	20070606
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 20080125444	A1	20080529	US 2007-758901	20070606
PRIORITY APPLN. INFO.:			US 2006-811464P P	20060606
			US 2006-502740 A	20060811

OTHER SOURCE(S): MARPAT 148:34035
GI

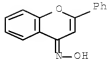
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to macrocyclic compds. I [R1, R2 = independently H, (un)substituted (hetero)/aryl, alk(en/yn)yl, CO2H and derivs., SO2NH and derivs., etc.; or R1CR2 = (un)substituted cycloalk(en)yl, heterocyclyl; or R1CR2 = (un)substituted cycloalk(en)yl, heterocyclyl fused with one or more R3; R3 = (un)substituted (hetero)/aryl, cycloalk(en)yl, etc.; G = ER3; E = absent, O, CO, COO, CONH, NH, NHCO, NHCONH, NHSO2NH, NHSO2; Z = CH2, O, S, SO, SO2; A = R5, COR5, COOR5, CONHR5, SO2R5, SO3R5, SO2NHR5; R5 = (un)substituted (hetero)/aryl, cycloalkenyl, alkynyl containing 0-3 heteroatoms selected from O, S or N, etc.; X = (CH2)j; Y = (CH2)k; U = (CH2)m; W = (CH2)h; j, k, m, h = independently 0-3; T = (CH2)n; n = 1-3] or their pharmaceutically-acceptable salts, esters or prodrugs which inhibit serine protease activity, particularly the activity of hepatitis C virus (HCV) NS3-NS4A protease (no data). The compds. of the invention interfere with the life cycle of the hepatitis C virus and are also useful as antiviral agents. Thus, macrocycle II was prepared via peptide coupling, ring-closing metathesis and oximation reactions.

IT 22115-89-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of oximyl cyclic peptides as hepatitis C serine protease inhibitors)

RN 22115-89-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:825133 CAPLUS Full-text
DOCUMENT NUMBER: 141:332051
TITLE: Preparation of substituted chromen-4-one oximes as inhibitors of protein kinases
INVENTOR(S): Green, Jeremy; Aronov, Alex; Pierce, Albert C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 47 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040198750	A1	20041007	US 2004-808678	20040325
AU 2004230841	A1	20041028	AU 2004-230841	20040325
CA 2522595	A1	20041028	CA 2004-2522595	20040325
WO 2004092154	A1	20041028	WO 2004-US9145	20040325
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RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1615906	A1	20060118	EP 2004-758959	20040325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
JP 2006522124	T	20060928	JP 2006-509283	20040325

PRIORITY APPLN. INFO.: US 2003-460042P P 20030403
WO 2004-US9145 W 20040325

OTHER SOURCE(S): MARPAT 141:332051
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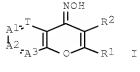

I

AB The title compds. [I; R1 = LmR, LmAr1, LmCy1; L = S, O, NR, alkylidene wherein up to two non-adjacent methylene units of L are optionally replaced by S, O, CO, etc.; m = 0-1; Ar1 = (un)substituted 5-7 membered monocyclic or 8-10 membered bicyclic ring having 0-5 heteroatoms; Cy1 = (un)substituted 3-7 membered (un)saturated monocyclic ring having 0-3 heteroatoms or 8-10 membered (un)saturated bicyclic ring having 0-5 heteroatoms; R = H, alkyl; R2 = H, CN, SR, OR, etc.; T = N, CR3; A1-A3 = N, CR4; provided that no more than two of T, A1-A3 are N atom; R3 = H, halo, NO2, etc.; R4 = halo, NO2, CN, etc.; with provisos], useful as inhibitors of protein kinases, were prepared E.g., a 2-step synthesis of 2-(4-methoxyphenyl)-8-methylchromen-4-one oxime, starting from 8-methyl-4'-methoxyflavone, was given. The exemplified compds. I were tested and found to inhibit CDK-2, cMET, GSK-3, SYK, ZAP-70, FLT-3, JAK-3, p70S6K, TAK-1, and IRAK-4. The invention also provides pharmaceutically acceptable compns. comprising said compds. I and methods of using the compns. in the treatment of various disease, conditions, or disorders.

IT 59835-92-6P 115663-23-5P 140885-79-6P
304691-31-4P 321976-78-7P 769948-78-9P
769948-79-0P 769948-80-3P 769948-81-4P
769948-88-1P 769948-89-2P 769948-91-6P
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769948-98-3P 769948-99-4P 769949-00-0P
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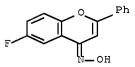
769949-12-4P 769949-13-5P 769949-14-6P
769949-15-7P 769949-16-8P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of substituted chromen-4-one oximes as inhibitors of protein kinases)

RN 59835-92-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 6-fluoro-2-phenyl-, oxime (CA INDEX NAME)



RN 115663-23-5 CAPLUS

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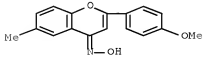

RN 140885-79-6 CAPLUS
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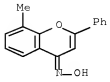

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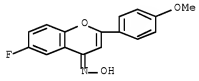

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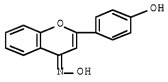

RN 769948-78-9 CAPLUS
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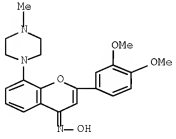

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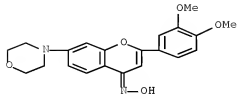

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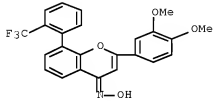

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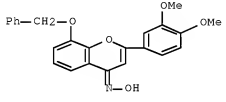

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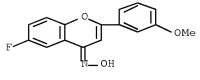

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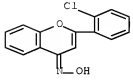
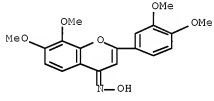
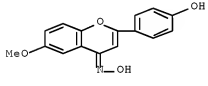


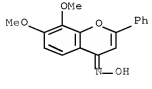
RN 769948-91-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(3,4-dimethoxyphenyl)-7,8-dimethoxy-, oxime (CA INDEX NAME)



RN 769948-92-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-6-methoxy-, oxime (CA INDEX NAME)

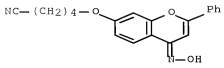


RN 769948-93-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7,8-dimethoxy-2-phenyl-, oxime (CA INDEX NAME)

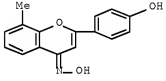


RN 769948-94-9 CAPLUS

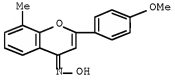
CN Pentanenitrile, 5-[[4-(hydroxyimino)-2-phenyl-4H-1-benzopyran-7-yl]oxy]-
(CA INDEX NAME)



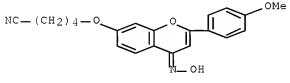
RN 769948-95-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-8-methyl-, oxime (CA INDEX
NAME)



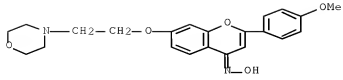
RN 769948-96-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-8-methyl-, oxime (CA INDEX
NAME)



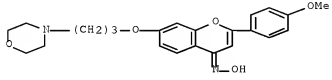
RN 769948-97-2 CAPLUS
CN Pentanenitrile, 5-[[4-(hydroxyimino)-2-(4-methoxyphenyl)-4H-1-benzopyran-7-
yl]oxy]- (CA INDEX NAME)



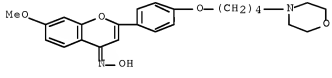
RN 769948-98-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-7-[2-(4-morpholinyl)ethoxy]-,
oxime (CA INDEX NAME)



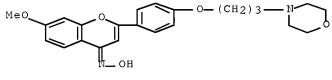
RN 769948-99-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-7-[3-(4-morpholinyl)propoxy]-, oxime (CA INDEX NAME)



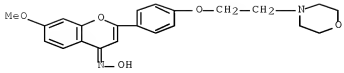
RN 769949-00-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[4-(4-morpholinyl)butoxy]phenyl]-, oxime (CA INDEX NAME)



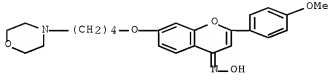
RN 769949-01-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[3-(4-morpholinyl)propoxy]phenyl]-, oxime (CA INDEX NAME)



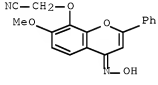
RN 769949-02-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[2-(4-morpholinyl)ethoxy]phenyl]-, oxime (CA INDEX NAME)



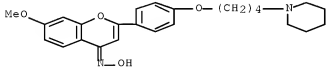
RN 769949-04-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-7-[4-(4-morpholinyl)butoxy]-, oxime (CA INDEX NAME)



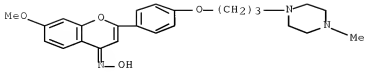
RN 769949-06-6 CAPLUS
CN Acetonitrile, 2-[[4-(hydroxyimino)-7-methoxy-2-phenyl-4H-1-benzopyran-8-yl]oxy]- (CA INDEX NAME)



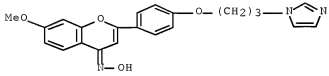
RN 769949-07-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[4-(1-piperidinyl)butoxy]phenyl]-, oxime (CA INDEX NAME)



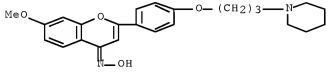
RN 769949-08-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[3-(4-methyl-1-piperazinyl)propoxy]phenyl]-, oxime (CA INDEX NAME)



RN 769949-09-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-[4-[3-(1H-imidazol-1-yl)propoxy]phenyl]-7-methoxy-, oxime (CA INDEX NAME)



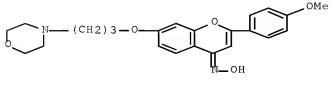
RN 769949-10-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[3-(1-piperidinyl)propoxy]phenyl]-, oxime (CA INDEX NAME)



RN 769949-11-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-7-[3-(4-morpholinyl)propoxy]-, oxime, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 769948-99-4
CMF C23 H26 N2 O5



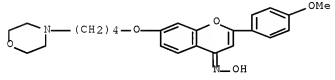
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 769949-12-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-7-[4-(4-morpholinyl)butoxy]-, oxime, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 769949-04-4
CMF C24 H28 N2 O5



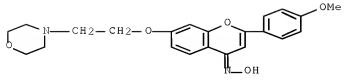
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 769949-13-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-7-[2-(4-morpholinyl)ethoxy]-, oxime, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 769948-98-3
CMF C22 H24 N2 O5



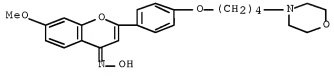
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 769949-14-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[4-(4-morpholinyl)butoxy]phenyl]-, oxime, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 769949-00-0
CMF C24 H28 N2 O5



CM 2

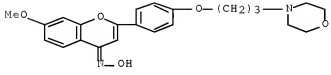
CRN 76-05-1
CMF C2 H F3 O2

RN 769949-15-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[3-(4-morpholinyl)propoxy]phenyl]-, oxime, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 769949-01-1
CMF C23 H26 N2 O5



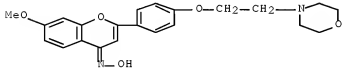
CM 2

CRN 76-05-1
CMF C2 H F3 O2

RN 769949-16-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methoxy-2-[4-[2-(4-morpholinyl)ethoxy]phenyl]-, oxime, 2,2,2-trifluoroacetate (1:1) (CA INDEX NAME)

CM 1

CRN 769949-02-2
CMF C22 H24 N2 O5



CM 2

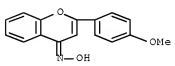
CRN 76-05-1
CMF C2 H F3 O2

L4 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:785496 CAPLUS Full-text
DOCUMENT NUMBER: 138:170044
TITLE: Amino acid derivatives and oximes of flavones
AUTHOR(S): Ishchenko, V. V.; Shulyak, T. S.; Khilya, V. P.
CORPORATE SOURCE: Taras Shevchenko Kiev National University, Kiev, Ukraine
SOURCE: Chemistry of Heterocyclic Compounds (New York, NY, United States)(Translation of Khimiya Geterotsiklicheskikh Soedinenii) (2002), 38(3), 274-280
CODEN: CHCCAL; ISSN: 0009-3122
PUBLISHER: Kluwer Academic/Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:170044

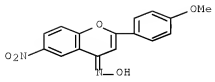
AB 4-Ethoxyflavylium tetrafluoroborates with substituents in rings A and B were synthesized. Their reaction with nitrogen-containing nucleophiles was investigated. It was shown that derivs. of flavones at the carbonyl group are formed as a result of these reactions. The major distinctive physicochem. characteristics of the oximes of flavones and isoxazoles were determined For example, the reaction of flavylium perchlorate with hydroxylamine hydrochloride gave 2-(3-phenyl-5-isoxazolyl)phenol.

IT 82340-45-2P, 2-(4-Methoxyphenyl)-4H-1-Benzopyran-4-one oxime
300835-66-9P, 2-(4-Methoxyphenyl)-6-nitro-4H-1-Benzopyran-4-one oxime 463358-39-6P, 6-Bromo-2-(4-methoxyphenyl)-4H-1-Benzopyran-4-one oxime
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-phenyl-4H-1-benzopyran-4-one oximes and N-(2-phenyl-4H-1-benzopyran-4-ylidene) amino acid derivs. from 4-ethoxy-2-phenylbenzopyrylium tetrafluoroborates)

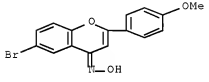
RN 82340-45-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)



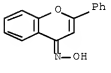
RN 300835-66-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-6-nitro-, oxime (CA INDEX NAME)



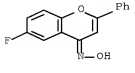
RN 463358-39-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-bromo-2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)



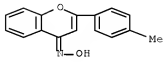
IT 22115-89-5P, 2-Phenyl-4H-1-Benzopyran-4-one oxime
59835-92-6P, 6-Fluoro-2-(phenyl)-4H-1-Benzopyran-4-one oxime
62645-49-8P, 2-(4-Methylphenyl)-4H-1-Benzopyran-4-one oxime
135085-53-9P, 6-Chloro-2-(4-methoxyphenyl)-4H-1-Benzopyran-4-one oxime 304691-31-4P, 6-Fluoro-2-(4-methoxyphenyl)-4H-1-Benzopyran-4-one oxime 321976-78-7P, 2-(4-Hydroxyphenyl)-4H-1-Benzopyran-4-one oxime 321976-79-8P, 6-Fluoro-2-(4-hydroxyphenyl)-4H-1-Benzopyran-4-one oxime 321976-80-1P, 2-(4-Hydroxyphenyl)-6-nitro-4H-1-Benzopyran-4-one oxime 497869-41-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of 2-phenyl-4H-1-benzopyran-4-one oximes and N-(2-phenyl-4H-1-benzopyran-4-ylidene) amino acid derivs. from 4-ethoxy-2-phenylbenzopyrylium tetrafluoroborates)
RN 22115-89-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



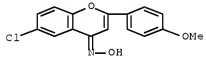
RN 59835-92-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-fluoro-2-phenyl-, oxime (CA INDEX NAME)



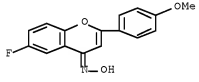
RN 63645-49-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methylphenyl)-, oxime (CA INDEX NAME)



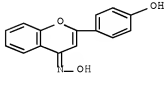
RN 135085-53-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)



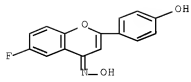
RN 304691-31-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-fluoro-2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)



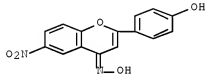
RN 321976-78-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-, oxime (CA INDEX NAME)



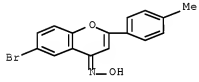
RN 321976-79-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-fluoro-2-(4-hydroxyphenyl)-, oxime (CA INDEX NAME)



RN 321976-80-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-hydroxyphenyl)-6-nitro-, oxime (CA INDEX NAME)



RN 497869-41-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-bromo-2-(4-methylphenyl)-, oxime (CA INDEX NAME)



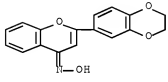
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:175148 CAPLUS Full-text
DOCUMENT NUMBER: 134:326293
TITLE: Synthetic analogs of naturally occurring flavolignans. X. Reaction of flavones and their thioderivatives with hydroxylamine
AUTHOR(S): Aitmambetov, A.; Khilya, V. P.; Kubzheterova, A.
CORPORATE SOURCE: Complex Institute of Natural Sciences, Karakalpak Division, Academy of Sciences of the Republic of Uzbekistan, Nukus, 742000, Uzbekistan
SOURCE: Chemistry of Natural Compounds (Translation of Khimiya Prirodnykh Soedinenii) (2000), 36(1), 47-50
CODEN: CHNCA8; ISSN: 0009-3130
PUBLISHER: Consultants Bureau
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:326293
AB 1,3-Benzodioxoles, 1,4-benzodioxanes, and 1,5-benzodioxepanes are flavone analogs that hydroxylamine recyclizes into derivs. of 5-(2-hydroxyphenyl)isoxazoles. They react with thio derivs. with retention of the

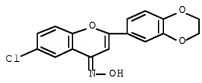
pyrone ring and formation of oximes. Their structures are proven using PMR spectra.

IT 168788-23-6P 302935-66-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reaction of hydroxylamine with flavones and their thio derivs.)

RN 168788-23-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(2,3-dihydro-1,4-benzodioxin-6-yl)-, oxime (CA INDEX NAME)



RN 302935-66-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-(2,3-dihydro-1,4-benzodioxin-6-yl)-, oxime (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

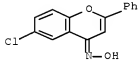
ACCESSION NUMBER:	1996:512488 CAPLUS Full-text
DOCUMENT NUMBER:	125:221509
ORIGINAL REFERENCE NO.:	125:41397a,41400a
TITLE:	A comparative study-reaction of chalcones with hydroxylamine hydrochloride in different solvents
AUTHOR(S):	Rahatgaonkar, A.M.; Ghiya, B.J.
CORPORATE SOURCE:	Chemistry Department, Institute of Science, Nagpur, 440 001, India
SOURCE:	Indian Journal of Heterocyclic Chemistry (1996), 5(4), 323-324 CODEN: IJCHEI; ISSN: 0971-1627
PUBLISHER:	Lucknow University, Dep. of Chemistry
DOCUMENT TYPE:	Journal
LANGUAGE:	English

AB A comparative study of the reaction between chalcones and hydroxylamine hydrochloride was found to be interesting as time of reaction, yield and the nature of products are dependent not only on the substituents in chalcones but the type of the solvent used for reaction medium. The following solvents/solvent reagent mixture were considered as reaction medium, S1 (Ethanol & sodium acetate) S2 (DMF), S3 (DMSO), S4 (DMSO-I2), S5 (Acetic Acid) S6 (Ethanol & KOH). The products are flavanone oximes, flavone oximes or

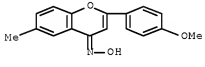
isoxazolines. Time varied from 10 min to 1 h for the maximum possible yield of a single particular compound out of three mentioned.

IT 59835-93-7P 115663-23-5P 115663-26-8P
135085-53-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

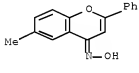
RN 59835-93-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-phenyl-, oxime (CA INDEX NAME)



RN 115663-23-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-6-methyl-, oxime (CA INDEX NAME)



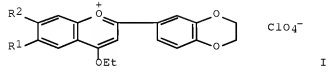
RN 115663-26-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-methyl-2-phenyl-, oxime (CA INDEX NAME)



RN 135085-53-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)

L4 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1995:603160 CAPLUS Full-text

DOCUMENT NUMBER: 123:256619
ORIGINAL REFERENCE NO.: 123:45899a,45902a
TITLE: Dioxane analogs of flavylium salts
AUTHOR(S): Ishchenko, V. V.; Nosichenko, E. I.; Falkovskaya, O. T.; Khilya, V. P.
CORPORATE SOURCE: Kiev. Univ., Ukraine
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1995), (3), 322-4
CODEN: KGSSAQ; ISSN: 0132-6244
PUBLISHER: Latviiskii Institut Organicheskogo Sinteza
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI

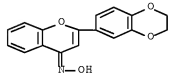


I

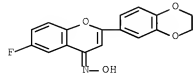
AB The title compds. (I; R1 = H, F, Me; R2 = H, Me, MeO) were prepared, and their reactions with hydrazine, hydroxylamine, aniline, and phenylhydrazine.

IT 168788-23-6P 168788-24-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

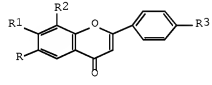
RN 168788-23-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(2,3-dihydro-1,4-benzodioxin-6-yl)-, oxime (CA INDEX NAME)



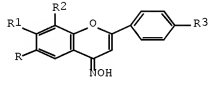
RN 168788-24-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(2,3-dihydro-1,4-benzodioxin-6-yl)-6-fluoro-, oxime (CA INDEX NAME)



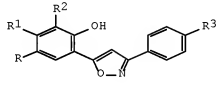
L4 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1992:214399 CAPLUS Full-text
DOCUMENT NUMBER: 116:214399
ORIGINAL REFERENCE NO.: 116:36329a,36332a
TITLE: Benzo-γ-pyrones. Part XIV. Reaction of C-substituted 2-phenyl-4H-1-benzopyran-4-ones with hydroxylamine
AUTHOR(S): Basinski, Polish Journal of Chemistry (1991), 65(9-10), 1619-32
CORPORATE SOURCE: Fac. Pharm., Sch. Med., Lodz, 90151, Pol.
SOURCE: Polish Journal of Chemistry (1991), 65(9-10), 1619-32
CODEN: PJCHDQ; ISSN: 0137-5083
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:214399
GI



I

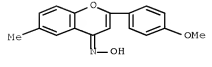


II

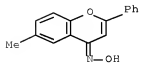


III

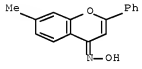
AB The reaction of flavones I (R, R1 = H, Me; R2 = H, Me, Br; R3 = H, MeO) with hydroxylamine in anhydrous pyridine was investigated. The oximes II and isoxazoles III were the products. It was determined that the ratio of II to III is dependent on the nature of substituent and its position in the flavone skeleton. It is postulated that the flavone is an ambient electrophile and that the reaction course is characteristic for this class of compds.
IT 115663-23-5P 115663-26-8P 140885-78-5P
140885-79-6P 140885-80-9P 140885-81-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, acetylation, IR, NMR, and mass spectrum of)
RN 115663-23-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-6-methyl-, oxime (CA INDEX NAME)



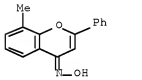
RN 115663-26-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-methyl-2-phenyl-, oxime (CA INDEX NAME)



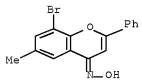
RN 140885-78-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 7-methyl-2-phenyl-, oxime (CA INDEX NAME)



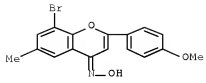
RN 140885-79-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-methyl-2-phenyl-, oxime (CA INDEX NAME)



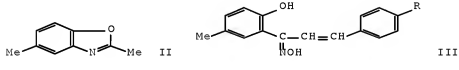
RN 140885-80-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-bromo-6-methyl-2-phenyl-, oxime (CA INDEX NAME)



RN 140885-81-0 CAPLUS
CN 4H-1-Benzopyran-4-one, 8-bromo-2-(4-methoxyphenyl)-6-methyl-, oxime (CA INDEX NAME)



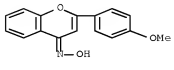
L4 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1991:471443 CAPLUS Full-text
DOCUMENT NUMBER: 115:71443
ORIGINAL REFERENCE NO.: 115:12347a,12350a
TITLE: Reaction of oximes of 2-hydroxyacetophenone, chalcone, flavanone, and flavone
AUTHOR(S): Bagade, M. B.; Ghiya, B. J.
CORPORATE SOURCE: Dep. Org. Chem., Inst. Sci., Nagpur, 440 001, India
SOURCE: Asian Journal of Chemistry (1991), 3(2), 158-63
CODEN: AJCHEW; ISSN: 0970-7077
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB Oximes of 2-hydroxyacetophenone, chalcone, flavanone, and flavone were prepared by the action of hydroxylamine hydrochloride on the resp. compds. The oximes gave back the starting material by the action of HCl, nitrous acid or CrO3 in AcOH. 2-Hydroxy-5-methylacetophenone oxime (I), with POCl3, cyclized to give benzoxazole II. I also condensed with RCHO (R = Ph, 4-MeOC6H4) to give chalcone oxime III.

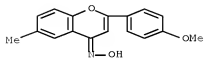
IT 82340-45-2P 115663-23-5P 135085-53-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and intramol. cyclocondensation of)

RN 82340-45-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)

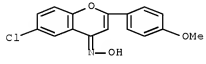


RN 115663-23-5 CAPLUS

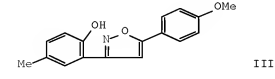
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-6-methyl-, oxime (CA INDEX NAME)



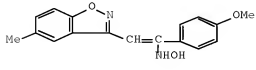
RN 135085-53-9 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)



L4 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1988:473368 CAPLUS Full-text
DOCUMENT NUMBER: 109:73368
ORIGINAL REFERENCE NO.: 109:12289a,12292a
TITLE: Reaction of hydroxylamine hydrochloride with 2-hydroxy-4'-methoxy-5-methyldibenzoylmethane and 4'-methoxy-6-methylflavone
AUTHOR(S): Lohiya, S. B.; Ghiya, B. J.
CORPORATE SOURCE: Dep. Chem., Vidarbha Mahadivyalaya, Amravati, 444 604, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1987), 26B(9), 873-6
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 109:73368
GI



III



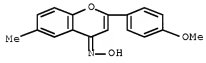
IV

AB 2-Hydroxy-4'-methoxy-5-methyldibenzoylmethane (I) reacts with NH2OH·HCl (II) in pyridine to give a mixture of isoxazole III and benzisoxazole IV. Similar results are obtained from the reaction of I with II in ethylenediamine, aqueous DMF, pyridine in ethanol or in the presence of KOH in MeOH. However, in DMF or in the presence of NaHCO3 in EtOH only III is formed. I remains unchanged in benzene/sodium bicarbonate and affords 4'-methoxy-6-methylflavone (V) in dilute AcOH or MeOH. V reacts with II in pyridine or ethylenediamine to give 4'-methoxy-6-methylflavone oxime instead of III as suggested by previous workers. 2-Hydroxy-5-methyldibenzoylmethane and 6-methylflavone also give similar results.

IT 115663-23-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

RN 115663-23-5 CAPLUS

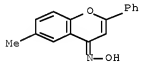
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-6-methyl-, oxime (CA INDEX NAME)



IT 115663-26-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 115663-26-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 6-methyl-2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:438715 CAPLUS Full-text

DOCUMENT NUMBER: 97:38715

ORIGINAL REFERENCE NO.: 97:6615a,6618a

TITLE: Reaction of hydroxylamine with 4'-substituted flavone derivatives

AUTHOR(S): Witczak, Zbigniew; Krolikowska, Maria

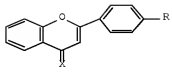
CORPORATE SOURCE: Inst. Fundam. Chem. Sci., Sch. Med., Lodz, 90145, Pol.

SOURCE: Polish Journal of Chemistry (1981), 55(4), 763-73
CODEN: PJCHDQ; ISSN: 0137-5083

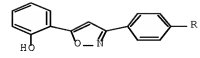
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

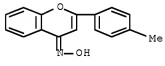


II

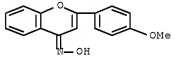
AB Flavones I (X = O, R = OMe, Me, Cl) reacted NH2OH to a give 3:1 mixture of II and I (X = NOH). Similar reaction of I (X = O, R = OH) gave only II (R = OH). Reaction of I (X = O, R = NO2) with NH2OH gave II (R = NO2), 3-(2-hydroxyphenyl)-5-(4-nitrophenyl)isoxazole, and 2- HOC6H4COCH:C(NHOH)C6H4NO2-4.

IT 63645-49-8P 82340-45-2P 82340-46-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and acetylation of)

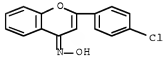
RN 63645-49-8 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methylphenyl)-, oxime (CA INDEX NAME)



RN 82340-45-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-methoxyphenyl)-, oxime (CA INDEX NAME)

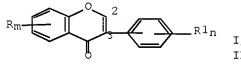


RN 82340-46-3 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-(4-chlorophenyl)-, oxime (CA INDEX NAME)

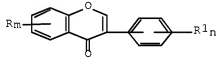


L4 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1979:413471 CAPLUS Full-text

DOCUMENT NUMBER: 91:13471
ORIGINAL REFERENCE NO.: 91:2167a,2170a
TITLE: Antitumor plants. Part VII. Antineoplastic activity and cytotoxicity of flavones, isoflavones, and flavanones
AUTHOR(S): Edwards, J. Michael; Raffauf, Robert F.; Le Quesne, Philip W.
CORPORATE SOURCE: Sch. Pharm., Univ. Connecticut, Storrs, CT, 06268, USA
SOURCE: Journal of Natural Products (1979), 42(1), 85-91
CODEN: JNPRDF; ISSN: 0163-3864
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



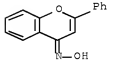
I, 2,3-unsatd.
II, 2,3-satd.



III

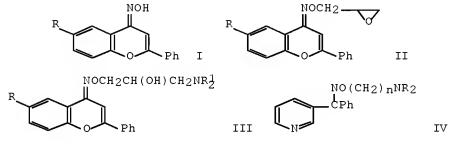
AB Two hundred and seventeen natural and synthetic flavonoid derivs. I, II, and III, which were tested in the screening program of the National Cancer Institute, were examd for antineoplastic activity and cytotoxicity. No structure-activity relations were observed Apparently, in spite of occasional activity these compds. do not warrant further investigation as antitumor agents.

IT 22115-89-5
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (antitumor activity and cytotoxicity of, structure in relation to)
RN 22115-89-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)

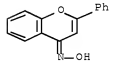


L4 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1978:424090 CAPLUS Full-text
DOCUMENT NUMBER: 89:24090
ORIGINAL REFERENCE NO.: 89:3737a,3740a
TITLE: Synthesis and pharmacological properties of some aminoalkyl ethers of heterocyclic ketoximes

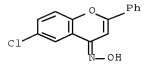
AUTHOR(S): Meshcheryakova, L. M.; Orlova, E. K.; Senova, Z. P.; Mochalova, O. A.; Speranskaya, N. P.; Burov, Yu. V.; Zagorevskii, V. A.
CORPORATE SOURCE: Inst. Farmakol., Moscow, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1978), 12(4), 50-4
CODEN: KHFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 89:24090
GI



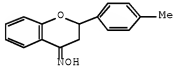
AB Reaction of oximes I (R = Cl, H) with epichlorohydrin gave .apprx.89% II, which when treated with amines gave 30-84% III (NR12 =, NHCHMe2, piperidino, morpholino, 4-methyl-1-piperazinyl). Treatment of the syn and anti isomers of 3-benzoylpyridine oxime with Cl(CH2)nNR2 (n = 2, R = Me, Et; n = 3, R = Me) gave 30-94% IV. All syn- and anti-IV depressed the central nervous system. All IV induced ataxia. IV had analgesic effects at doses close to the LD50. Anti-IV (R = Me, n = 3) had high adrenolytic activity.
IT 22115-89-5 59835-93-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with epichlorohydrin)
RN 22115-89-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



RN 59835-93-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:484773 CAPLUS Full-text
DOCUMENT NUMBER: 87:84773
ORIGINAL REFERENCE NO.: 87:13475a,13478a
TITLE: Reaction of 2'-hydroxy-4-methylchalcone with hydroxylamine hydrochloride
AUTHOR(S): Krolikowska, Maria; Witczak, Zbigniew
CORPORATE SOURCE: Dep. Org. Chem., Sch. Med., Lodz, Pol.
SOURCE: Roczniki Chemii (1977), 51(3), 611-15
CODEN: ROCHAC; ISSN: 0035-7677
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



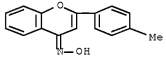
I

AB Reaction of o-HOC6H4COCH:CHC6H4Me-p with NH2OH.HCl yielded 5 compds. depending on reaction conditions; the main product was 4'-methylflavanone oxime (I).

IT 63645-49-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

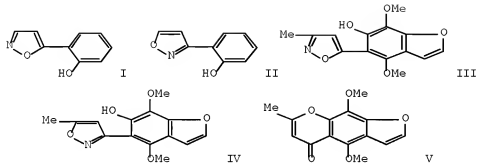
RN 63645-49-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-(4-methylphenyl)-, oxime (CA INDEX NAME)



L4 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:155551 CAPLUS Full-text
DOCUMENT NUMBER: 86:155551
ORIGINAL REFERENCE NO.: 86:24427a,24430a
TITLE: Action of hydroxylamine on chromone and khellin. Oxime vs. isoxazoles structures
AUTHOR(S): Beugelmans, Rene; Morin, Christophe
CORPORATE SOURCE: Inst. Chim. Subst. Nat., Gif-sur-Yvette, Fr.
SOURCE: Journal of Organic Chemistry (1977), 42(8), 1356-60
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal
LANGUAGE: English
GI

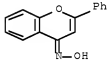


AB Chromone reacted with HONH2 under the usual conditions to give I and II but no oxime. Similarly, III and IV were obtained from khellin (V). When the reactions were performed with H2OH.HCl in anhydrous MeOH, the oximes were obtained. 13C NMR data were given.

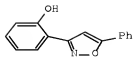
IT 22115-89-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(NMR of carbon-13 in)

RN 22115-89-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1977:43601 CAPLUS Full-text
DOCUMENT NUMBER: 86:43601
ORIGINAL REFERENCE NO.: 86:6937a,6940a
TITLE: Reactions of derivatives of benzo-γ-pyrone with hydroxylamine. Part III
AUTHOR(S): Basinski, Wlodzimierz; Jerzmanowska, Zofia
CORPORATE SOURCE: Inst. Chem., Sch. Med., Lodz, Pol.
SOURCE: Roczniki Chemii (1976), 50(6), 1067-73
CODEN: ROCHAC; ISSN: 0035-7677
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 86:43601
GI



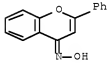
I

AB Reaction of flavone with NH2OH.HCl in C5H5N gave a 3:2 mixture of flavone oxime and the isoxazole I. Mass spectrum of I and the reaction mechanism are discussed.

IT 22115-89-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 22115-89-5 CAPLUS

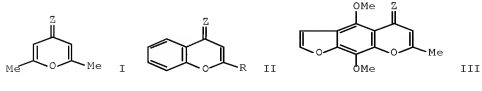
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER:	1977:5261 CAPLUS Full-text
DOCUMENT NUMBER:	86:5261
ORIGINAL REFERENCE NO.:	86:907a,910a
TITLE:	Action of reactive nucleophiles (hydroxylamine and hydrazine) on γ-pyrones
AUTHOR(S):	Beugelmans, Rene; Morin, Christophe
CORPORATE SOURCE:	Inst. Chim. Subst. Nat., CNRS, Gif sur Yvette, Fr.
SOURCE:	Tetrahedron Letters (1976), (25), 2145-8 CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE:	Journal
LANGUAGE:	French
OTHER SOURCE(S):	CASREACT 86:5261

GI



I II III

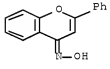
AB Reaction of the γ-pyrones I (Z = O), II (Z = O, R = H, Me, Ph), and III (Z = O) with NH2OH.HCl or NH2NH2.HCl in anhydrous MeOH gave 31-85% oximes I-III (Z = NOH) and 40-70% of the corresponding azines (R = H, Ph), resp. The mechanism for the reaction is discussed and involves formation of 4-hydroxypyrilium ion, which then undergoes attack by base at the 4-position.

IT 22115-89-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 22115-89-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:446315 CAPLUS Full-text

DOCUMENT NUMBER: 85:46315

ORIGINAL REFERENCE NO.: 85:7519a

TITLE: Synthesis and pharmacological activity of some derivatives of 4-imino- and oximinoflavenes

AUTHOR(S): Meshcheryakova, L. M.; Tsikalova, T. S.; Orlova, E. K.; Burov, Yu. V.; Speranskaya, N. P.; Zagorevskii, V. A.

CORPORATE SOURCE: Nauchno-Issled. Inst. Farmakol., Moscow, USSR

SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1976), 10(3), 37-41

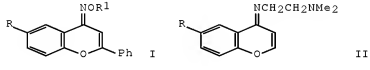
CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal

LANGUAGE: Russian

OTHER SOURCE(S): CASREACT 85:46315

GI



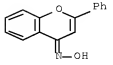
I II

AB Flavone O-alkyloximes [I, R = H, Cl, F, R1 = Me, PhCH2, p-O2NC6H4, Me2NCH2CH2, Et2NCH2CH2, Me2N(CH2)3, 4-methyl-1-piperazinylpropyl], useful as sedatives and in treatment of ataxia, were prepared in 40-85% yields by alkylation of the corresponding oximes with R1Cl. II (R = H, Cl) were obtained by treatment of a 4-thioflavone with H2NCH2CH2NMe2.

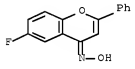
IT 22115-89-5 59835-92-6 59835-93-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(O-alkylation of)

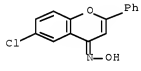
RN 22115-89-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



RN 59835-92-6 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-fluoro-2-phenyl-, oxime (CA INDEX NAME)

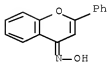


RN 59835-93-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 6-chloro-2-phenyl-, oxime (CA INDEX NAME)

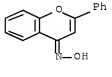


L4 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1975:496939 CAPLUS Full-text
DOCUMENT NUMBER: 83:96939
ORIGINAL REFERENCE NO.: 83:15217a,15220a
TITLE: Reactions of 4-ethoxyflavylium, chromylium, and furochromylium salts with some amines
AUTHOR(S): Dorofeenko, G. N.; Tkachenko, V. V.; Mezheritskii, V. V.
CORPORATE SOURCE: Rostov. Gos. Univ., Rostov-on-Don, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1975), (4), 465-8
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 83:96939
GI For diagram(s), see printed CA Issue.
AB Amination of I [R = EtO, R1 = H, R2 = Ph (II); R = EtO, R1 = MeO, R2 = H (III)] and IV (R = EtO) by PhNH2 in HOAc gave II-IV (R = PhNH) whereas amination by PhNHNH2 gave II-IV (R = PhNHNH). Condensation of IV (R = EtO) with N2H4 and HONH2 yielded benzofurans V (R3 = 3-pyrazolyl, 3-isoxazolyl), whereas II and HONH2 gave the oxime VI.
IT 22115-89-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 22115-89-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1969:114945 CAPLUS Full-text
DOCUMENT NUMBER: 70:114945
ORIGINAL REFERENCE NO.: 70:21451a,21454a
TITLE: α-Halo ethers. XL. Flavonoids. 17. Preparation and reactions of some 4,4-dichloroflavene derivatives
AUTHOR(S): Farkas, Istvan; Costisella, Burkhard; Rakosi, Miklos; Gross, Hans; Bognar, Rezso
CORPORATE SOURCE: Univ. Debrecen, Debrecen, Hung.
SOURCE: Chemische Berichte (1969), 102(4), 1333-8
CODEN: CHBEAM; ISSN: 0009-2940
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Treatment of 2-phenyl-7-(R-substituted)-flavones (I, where R = H, AcO, or tetracetyl-β-D-glucopyranosyloxy) with MeOCHCl2 gave 2-phenyl-4,4-dichloro-7-(R-substituted)-2-flavenes (II). The dichloro derivs. of 3-acetoxyflavone, 3-methoxyflavone, and 3,3',4',5,7- pentacetoxyflavone could not be prepared by this method. Treatment of II with AcSH in C6H6 gave 2-phenyl-7-(R-substituted)thioflavones. II (R = H) reacted with MeOH to give I (R = H), with PhSH to give 2-phenyl-4,4-bis(phenylthio)-2-flavene and with R1NH2 to give 2-phenyl-4-(R1N:-substituted)-2-flavene (where R = Ph, C10H21, or OH). 2-Phenylthioflavone reacted similarly to I.
IT 22115-89-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 22115-89-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1960:128929 CAPLUS Full-text
DOCUMENT NUMBER: 54:128929
ORIGINAL REFERENCE NO.: 54:24701g-i,24702a-b
TITLE: 7,2',4'-Trimethoxyflavone

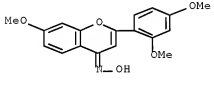
AUTHOR(S): Spatz, Sydney M.; Koral, Marvin
CORPORATE SOURCE: Allied Chem. Corp., Buffalo, NY
SOURCE: Journal of Organic Chemistry (1959), 24, 1381-2
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB In an attempt to synthesize 2,2'-dihydroxy-4,4'-dimethoxydibenzoylmethane (I) to obtain the spectral characteristics, the intermediate 2,2',4,4'-tetramethoxydibenzoylmethane (II) was cleaved with HI by way of the transitory 2-hydroxy-2',4,4'-trimethoxydibenzoylmethane (III) to the title compound (IV). Polyphosphoric acid (400 g.) and 41.4 g. m-(MeO)2C6H4 stirred 3 hrs. at 50-3° in 21.6 g. AcOH and the mixture diluted with 1200 ml. ice H2O, extracted with Et2O and the dried (Na2SO4) extract evaporated yielded 86.1% 2,4-(MeO)2C6H3COMe (V), b3 134-7°, m. 40-3°. Me2SO4 (1675 g.) and 612 g. NaOH in 1300 ml. H2O used in the treatment of 154 g. β-resorcylic acid according to Robinson and Venkataraman (CA 23, 2181) yielded 80% 2,4-(MeO)2C6H3CO2H, m. 99-104°, esterified (126 g.) in 277 ml. C6H6 with 127 g. alc. in the presence of 3 ml. 100% H2SO4 to yield 89 g. 2,4-(MeO)2C6H3CO2Et (VI), b3.5 143-7°. Freshly prepared NaNH2 (0.5 mole) freed from NH3 and taken up simultaneously in anhydrous Et2O, cooled (solid CO2) and treated in 10 min. with 45 g. V in 42 ml. Et2O, kept 5 min. and treated in 10 min. with 52.5 g. VI in Et2O, the mixture refluxed overnight and quenched in ice H2O containing HCl, the Et2O layer dried and evaporated and the reddish yellow solid recrystd. yielded 37.2% yellow crystalline II, m. 131-4°, λ 6.04, 6.24 μ (CCl4). P2O5 (1.2 g.) and 5.1 g. 85% H3PO4 treated at 20° with 5.0 g. finely powdered KI and 1.7 g. II in succession and the mixture stirred 30 min. at 105-10°, poured into ice H2O and the precipitate recrystd. from dilute alc. yielded 75% IV, m. 143.5-5.5°, λ 6.11 μ (CCl4), λ 236, 334 mμ (ε 2200, 2450, MeOH); oxime, m. 204-7°. Attempts to demethylate II to I by means of AlCl3 or 48% HBr failed, though the transitory III may have formed and given IV by a 1,3-prototropic shift of a methylene H atom, followed by cyclodehydration.

IT 101734-73-0P, Flavone, 2',4',7-trimethoxy-, oxime
RL: PREP (Preparation)
(preparation of)

RN 101734-73-0 CAPLUS

CN Flavone, 2',4',7-trimethoxy-, oxime (6CI) (CA INDEX NAME)



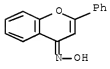
L4 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1936:61866 CAPLUS Full-text
DOCUMENT NUMBER: 30:61866
ORIGINAL REFERENCE NO.: 30:8214c-d
TITLE: A new method of oximation
AUTHOR(S): Gulati, K. C.; Ray, J. N.
SOURCE: Current Science (1936), 5, 75
CODEN: CUSCAM; ISSN: 0011-3891
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. C. A. 29, 163.5. The oximes of flavone and α-naphthaflavone were obtained by reaction with NH2OH in aqueous pyridine as follows: reflux 0.1 g. 4 hrs. with 0.15 g. NH2OH.HCl in 0.5 cc. H2O and 1 cc. pyridine, and pour into dilute AcOH when cold. Crystallized from hot dilute acetone, flavone gave colorless needles, m. 237°, and α-naphthaflavone colorless needles, m. 181°.

IT 22115-89-5, Flavone, oxime
RL: PREP (Preparation)
(preparation of)

RN 22115-89-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl-, oxime (CA INDEX NAME)



L4 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1908:7441 CAPLUS Full-text

DOCUMENT NUMBER: 2:7441

ORIGINAL REFERENCE NO.: 2:1709g-i,1710a-b

TITLE: Two Monohydroxy-α-Naphthoflavonols

AUTHOR(S): v. Kostanecki, St.

CORPORATE SOURCE: Univ. Lab., Bern

SOURCE: Berichte der Deutschen Chemischen Gesellschaft (1908), 41, 783-6
CODEN: BDCGAS; ISSN: 0365-9496

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

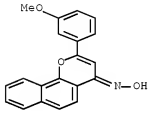
AB 4'-Methoxy-α-naphthoflavanone (I below) from 2-anisalaceto-1- naphthol, HCl and MeOH. Colorless needles, m. 148°. Isonitroso derivative, yellow needles, m. and decomposes 169-70°. It gives orange colors with cobalt mordants and yellow ones with mordants of uranium, cadmium and lead. 4'-Methoxy-α-naphthoflavonol, by hydrolysis of the preceding compound with AcOH and dilute H2SO4. Slender, yellow needles, m. 249°. It gives light yellow colors with aluminum mordants and a light green, intensely fluorescent solution with concentrate H2SO4. Sodium salt, yellow and sparingly soluble. Acetyl derivative, colorless interlaced needles, m. 196°. 4'-Hydroxy-α-naphthoflavonol (II), from the methoxy compound and HI. Pale yellow plates, m. 293°. It gives light yellow colors with aluminum mordants. Concentrate H2SO4 dissolves it with a pale yellow color and an intense light green fluorescence; in aqueous NaOH the color is yellow with a greenish fluorescence. Diacetyl derivative, colorless needles, m. 181°. 3'-Methoxy-2-benzalaceto-1-naphthol, HOC10H6COCH:CHC6H4OMe, from m-methoxybenzaldehyde and 2-aceto-1-naphthol; orange-red needles, m. 115°. With concentrate H2SO4 the crystals darken and give a red solution. 3'-Methoxy-α-naphthoflavanone, from the preceding compound and HCl. Colorless needles, m. 130°. Isonitroso derivative, yellow crystalline powder, m. and decomposes 151°. It gives a pale yellow solution with dilute aqueous NaOH and orange colors with cobalt mordants. 3'-Methoxy-α-naphthoflavonol, yellow needles, m. 185°. In concentrate H2SO4, its solution is light yellow. With aluminum mordants it dyes pale yellow. Sodium salt, yellow and sparingly soluble. Acetyl derivative, colorless needles, m. 165°. 3'-Hydroxy-α-naphthoflavonol, from the

methoxy derivative and HI. Lustrous pale yellow prismatic needles with 1EtOH, m. 248°. It dyes pale yellow with aluminum mordants. In concentrate H2SO4 the solution is pale yellow with a feeble greenish fluorescence. Sodium salt, slender yellow needles. In highly dilute solution it has a feeble greenish fluorescence.

IT 861550-15-4P, 7,8-Benzoflavanone, 3'-methoxy-, oxime
RL: PREP (Preparation)
(preparation of)

RN 861550-15-4 CAPLUS

CN 4H-Naphtho[1,2-b]pyran-4-one, 2-(3-methoxyphenyl)-, oxime (CA INDEX NAME)

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L7            1 L4 AND CANCER

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                  (TUMOUR OR TUMOURS)
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L9            0 L6 AND L7

=> s l6 or l7
L10           2 L6 OR L7

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